

AMENDMENTS TO THE CLAIMS

The following Listing of Claims will replace all prior versions and listings of claims in this application.

LISTING OF CLAIMS

1. (Currently amended) An X-ray image processing device for creating a display image from an X-ray image in which at least a marker image and a body part image are displayed, wherein part-images which show the marker image and the body part image are determined in the X-ray image and the part-images are arranged in the display image in a spatially separate manner, wherein the part-images which show the marker image and the body part image are pushed together as close as possible so that they lie immediately next to one another, wherein the size of the display image is such that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image, and the part-images have the same resolution and same number of pixels as in the X-ray image.

2. (Currently amended) An X-ray imaging device comprising:
 - an X-ray source for generating X-ray radiation,
 - an X-ray image detector for acquiring X-ray images,
 - an image processing device for creating a display image from an X-ray image in which at least a marker image and a body part image are displayed, wherein part-images which show the marker image and body part image are determined in the X-ray image and the part-images are arranged in the display image in a spatially separate manner, wherein the part-images which show the marker image and the body part image are pushed together as close as possible so that they lie immediately next to one another, wherein the size of the display image is such that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image, and the part-images have the same resolution and same number of pixels as in the X-ray image.

3. (Previously presented) The X-ray device of claim 2, wherein in each case the same surface area of the X-ray image detector is exposed to X-ray radiation as the X-ray images are being created.

4. (Previously presented) The image processing device of claim 1, wherein the part-images are spaced a minimum distance apart in the display image.

5. (Previously presented) The image processing device of claim 1, wherein the X-ray images are mammography X-ray images.

6. (Cancelled)

7. (Currently amended) A method for creating a display image from an X-ray image, comprising the following steps:

- a) determining part-images in the X-ray image of each of a marker and a body part,
- b) arranging the part-images in the display image in a spatially separate manner, wherein the part-images which show the marker image and the body part image are pushed together as close as possible so that they lie immediately next to one another.
- c) dimensioning the size of the display image such that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image, and the part-images have the same resolution and same number of pixels as in the X-ray image.

8. (Previously presented) The method of claim 7, comprising the further step:

- d) filling the part of the display image that is free of the part-images with image information from the part of the X-ray image that is free of the part-images.

9. (Previously presented) The image processing device of claim 1, wherein in order to determine the part-images use is made of a segmenting method in which the image values of the part of the X-ray image that is free of the part-images are determined and a coherent image area which contains mainly pixels with these image values is determined in the X-ray image.

10. (Cancelled)

11. (Currently amended) A computer-readable storage medium comprising instructions for creating a display image from an X-ray image comprising:

- a) storing in the medium an X-ray image comprising a marker image and a body part image;
- b) determining part-images of the marker and the body part from the X-ray image;
- c) arranging the part-images in a spatially separate manner in the display image in the storage medium, wherein the part-images which show the marker image and the body part image are pushed together as close as possible so that they lie immediately next to one another; and
- d) dimensioning the size of the display image such that the part of the display image that is free of the part-images is smaller than the corresponding part of the X-ray image, and the part-images have the same resolution and same number of pixels as in the X-ray image.